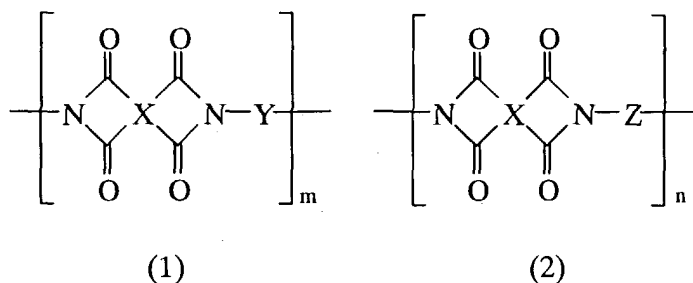


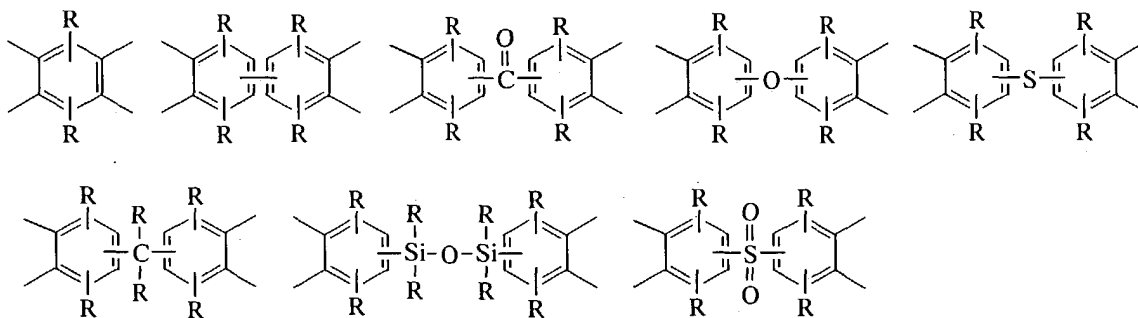
CLAIMS:

1. A polyimide resin comprising recurring units of the following structural formulae (1) and (2) and prepared using
5 a diamine bearing an aromatic ring having an amino radical attached thereto and another aromatic ring having a phenolic hydroxyl radical so that the polyimide resin has phenolic hydroxyl radicals in its skeleton,



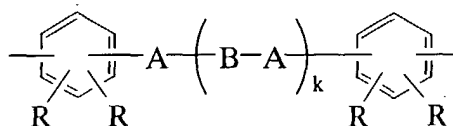
- 10 wherein X is at least one tetravalent organic radical selected from the group [I]; Y is a divalent organic radical comprising a diamine residue Y₁ having a phenolic hydroxyl radical represented by the formula [II] and an aromatic
15 diamine residue Y₂ selected from the group [III]; Z is a siloxane diamine residue represented by the formula [IV]; Y₁/(Y₁+Y₂) being from 0.01 to 1 in a molar ratio, m and n are natural numbers, satisfying 0.1 ≤ m/(m+n) ≤ 0.99 and 10 ≤ m+n ≤ 500,

Group (I)



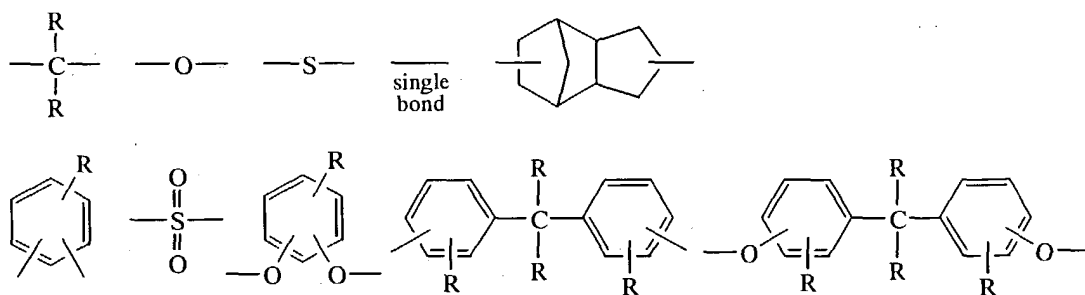
- 20 wherein R is independently a hydrogen atom, halogen atom or substituted or unsubstituted monovalent hydrocarbon radical of 1 to 8 carbon atoms,

Formula (II)

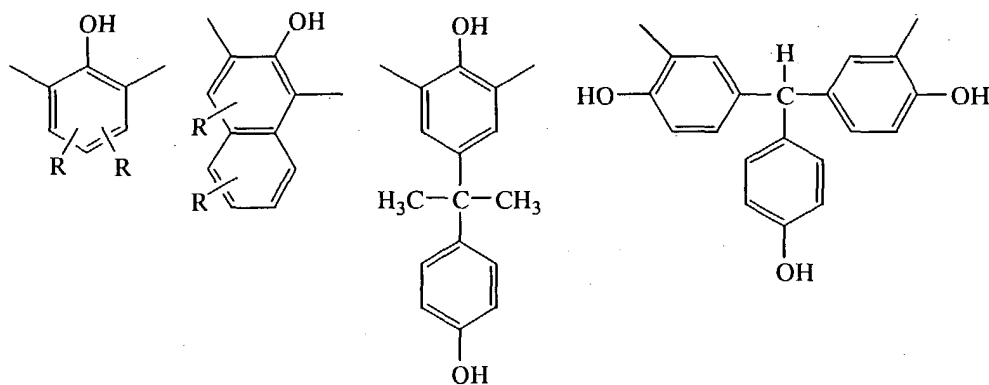


wherein A is a radical selected from the group [IIa] and B is a radical selected from the group [IIb]:

Group (IIa)



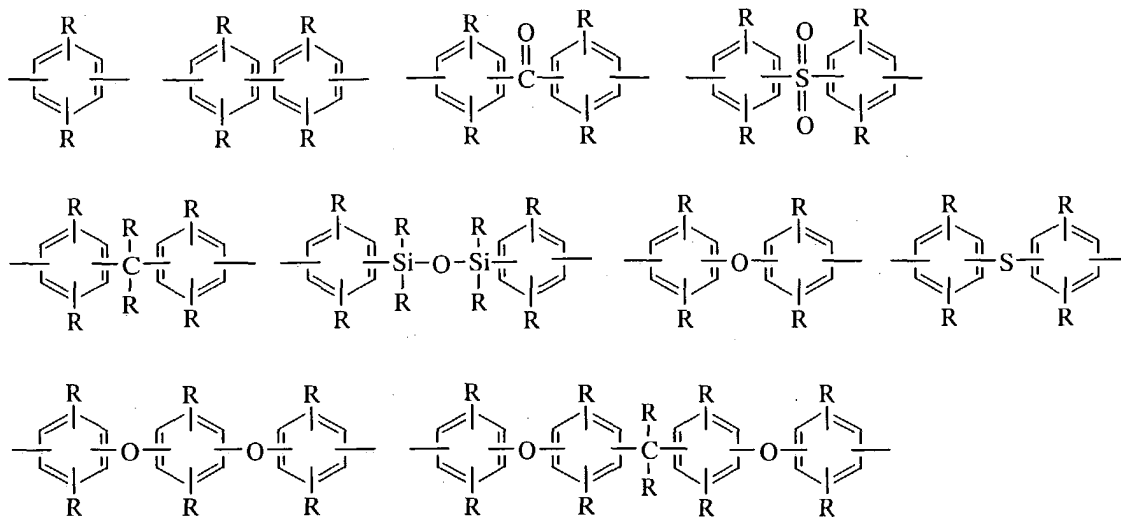
Group (IIb)



5

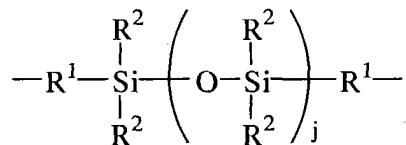
R is as defined above, and k is a natural number of 1 to 5,

Group (III)



wherein R is as defined above,

Formula (IV)



- 5 wherein R¹ is independently a C₁₋₈ alkylene or arylene radical, R² is independently a C₁₋₈ alkyl, alkoxy or aryl radical, and j is an integer of 4 to 60.

2. A method for preparing the polyimide resin of claim 1,
10 comprising reacting a tetracarboxylic acid dianhydride having the general formula (3):



- or its precursor, a tetracarboxylic acid or ester derivative thereof with diamines having the general formulae (4), (5)
15 and (6):



- 5 wherein X, Y₁, Y₂ and Z are as defined above, with the proviso that the amounts of diamines of formulae (4), (5) and (6) used are y₁ moles, y₂ moles and z moles, respectively, y₁/(y₁+y₂) is from 0.01 to 1, and (y₁+y₂)/(y₁+y₂+z) is from 0.1 to 0.99,
- 10 under such conditions as to give a molar ratio of P/Q > 1 wherein P is the amino radical on the diamine of formula (4) and Q is the acid anhydride residue (or 2 equivalents of carboxylic acid radical or ester radical) on the tetracarboxylic acid dianhydride of formula (3).

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3. A polyimide resin composition comprising the polyimide resin of claim 1.

4. The polyimide resin composition of claim 3, further
20 comprising an epoxy resin having at least two glycidyl radicals.

5. The polyimide resin composition of claim 4, further comprising an epoxy resin curing agent.

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